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Attorney Reference No. 6454-56839
Application No. 10/039,940
PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Keefer et al.

Art Unit: 1745

Application No. 10/039,940

CERTIFICATE OF MAILING

Filed: October 26, 2001

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on April 19, 2002, as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

For: ENERGY EFFICIENT GAS SEPARATION
FOR FUEL CELLS

Date: April 19, 2002

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COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

PRELIMINARY AMENDMENT

Please amend the referenced application and add new claims as requested below.

In the Claims:

Please amend the claims as follows:

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1. (Once amended) An electrical current generating system, comprising:
at least one fuel cell operating at a temperature of at least about 250°C;
at least one gas system selected from a hydrogen gas separation system or oxygen gas delivery system coupled to the fuel cell, the hydrogen gas separation system or oxygen gas delivery system including at least one device selected from a compressor or pump; and
a drive system for the compressor or pump that includes means for recovering energy from at least one of the hydrogen gas separation system, oxygen gas delivery system, or heat of the fuel cell.

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31. (Once amended) A process for providing at least one feed stream to at least one fuel cell operating at a temperature of at least about 250°C, comprising:
providing at least one of a hydrogen gas separation system or oxygen gas delivery system coupled to the fuel cell, the hydrogen gas separation system or oxygen gas delivery system including at least one device selected from a compressor or vacuum pump;
recovering energy from at least one of the hydrogen gas separation system, oxygen gas delivery system, or heat of the fuel cell; and